

INTERNATIONAL SEARCH REPORT

International Application No.

PCT/GB2004/004150

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07C63/307 C07D207/46 C07D209/48 C07D211/94 C07C57/34
C07C57/72 G01N33/543

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G01N C07C C07D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BEILSTEIN Data, WPI Data, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DATABASE CA 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; XP002270048 Database accession no. 135:344649 abstract & LEUNG, D.K. ET AL: "Synthesis and binding properties of cyclodextrin trimers" TETRAHEDRON LETTERS, vol. 42, no. 36, 2001, pages 6255-6258, -----	38
X	DATABASE CA 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; XP002270049 Database accession no. 130:259811 abstract -/--	38



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
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- "O" document referring to an oral disclosure, use, exhibition or other means
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"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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Date of the actual completion of the international search

18 November 2004

Date of mailing of the international search report

25/11/2004

Name and mailing address of the ISA

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 PCT/GB2004/004150

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	& PODLAHA, J. ET AL: "Crystal structure of 1,2,3,4,5,6-hexakis(2'-carboxyethyl)benzene dihydrate, C ₂₄ H ₃₀ O ₁₂ .2H ₂ O" ZEITSCHRIFT FÜR KRISTALLOGRAPHIE-NEW CRYSTAL STRUCTURES, vol. 214, no. 2, 1999, pages 183-184, ----- DATABASE CA 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; XP002270050 Database accession no. 127:333050 abstract & SPINO, C. ET AL: "Lanthanide catalysts for the hetero Diels-Alder reaction: effect of ligand structure and acidity" CANADIAN JOURNAL OF CHEMISTRY, vol. 75, no. 8, 1997, pages 1047-1054, -----	38
X	DATABASE CA 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; XP002270051 Database accession no. 98:197855 abstract & COLLMAN, JAMES P. ET AL: J.AM.CHEM.SOC., vol. 105, no. 10, 1983, pages 3038-3052, -----	38
X	DATABASE CA 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; XP002270052 Database accession no. 96:104214 abstract & KANISHI, M. ET AL: "Synthesis of macrocyclic 'n.n.n!(1,3,5)cyclophane polylactones" BULLETIN OF THE CHEMICAL SOCIETY OF JAPAN, vol. 54, no. 12, 1981, pages 3828-3831, -----	38
X	COLLMAN, J.P. ET AL: "Synthesis and characterization of the "pocket" porphyrins" J.AM.CHEM.SOC., vol. 105, no. 10, 1983, pages 3038-3052, XP002270041 *scheme I* ----- -/--	38

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB2004/004150

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	SIGMAN, M.S. ET AL: "Cobalt-catalyzed cyclotrimerization of alkynes in aqueous solution" J.AM.CHE.SOC., vol. 120, no. 20, 1998, pages 5130-5131, XP002270042 *p. 5131, compounds 18a and 18b*	38,39
X	DATABASE CROSSFIRE BEILSTEIN 'Online! Beilstein Institut zur Förderung der chemischen Wissenschaften, Frankfurt am Main, DE; XP002270053 Database accession no. 4435562 (BRN) abstract & HOFFMANN, H.M.R. ET AL: SYNTHESIS, vol. 3, 1982, pages 237-239,	38,39
X	DATABASE CROSSFIRE BEILSTEIN 'Online! Beilstein Institut zur Förderung der chemischen Wissenschaften, Frankfurt am Main, DE; XP002270054 Database accession no. 3361499 (BRN) abstract & HOPFF ET AL: HELV.CHIM.ACTA, vol. 40, 1957, pages 274-280,	38,39
X	COLQUHOUN, H.M. ET AL: "One-step synthesis of very large cage-type molecules from aromatic sub-units" CHEM.COMMUN., 2001, pages 2574-2575, XP002270043 *compounds 2 and 6*	38
X	NEWMAN, M.S. ET AL: "The synthesis of 1,3,5-Benzenetriacetic acid by a triple-Willgerodt reaction" J.AM.CHEM.SOC., vol. 76, 1954, pages 6196-6197, XP002270044 *the whole document*	38,39
X	WENKERT, E. ET AL: "Derivatives of Hemimellitic Acid. A synthesis of Erythrocentaurin" J.AM.CHEM.SOC., vol. 29, 1964, pages 2534-2542, XP002270045 *compound 1a,4a,4c,7k*	38,39
	-/--	

INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB2004/004150

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	"Aldrich-Handbuch Feinchemikalien" 1999, ALDRICH, XP002270047 *catalog numbers: B420-1, B458-9, 48,274-9, B460-0, T6,802-0,14,753-2* page 179 - page 180	38
X	HANESSIAN, S. ET AL: "Design and synthesis of a cephalosporin-carboplatinum prodrug activatable by a beta-lactamase" CAN.J.CHEM., vol. 71, 1993, pages 896-906, XP0009025793 *compounds 3-7, p. 897*	38,39
A	EP 0 280 840 A (PALL CORP) 7 September 1988 (1988-09-07) page 6, line 35 - page 7, line 20 claims	12-24
A	PIRRUNG M C ET AL: "A General Method for the Spatially Defined Immobilization of Biomolecules on Glass Surfaces Using Caged Biotin" BIOCONJUGATE CHEMISTRY, AMERICAN CHEMICAL SOCIETY, WASHINGTON, US, vol. 7, no. 3, May 1996 (1996-05), pages 317-321, XP002095758 ISSN: 1043-1802 cited in the application *the whole document*	1-37
A	ADESSI C ET AL: "Solid phase DNA amplification: characterization of primer attachment and amplification mechanisms" NUCLEIC ACIDS RESEARCH, OXFORD UNIVERSITY PRESS, SURREY, GB, vol. 28, no. 20, 15 October 2000 (2000-10-15), page e87, XP002169484 ISSN: 0305-1048 cited in the application *the whole document*	1-37
A	PIRRUNG M C: "HOW TO MAKE A DNA CHIP" ANGEWANDTE CHEMIE. INTERNATIONAL EDITION, VERLAG CHEMIE. WEINHEIM, DE, vol. 41, no. 8, 2002, pages 1277-1289, XP001111695 ISSN: 0570-0833 cited in the application page 1278; table 1	1-37
A	US 4 140 662 A (RECKEL RUDOLPH P ET AL) 20 February 1979 (1979-02-20) cited in the application *the whole document*	1-37
	----- -/-	

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>US 6 319 674 B1 (DELLINGER DOUGLAS J ET AL) 20 November 2001 (2001-11-20) *the whole document*</p> <p>-----</p>	1-37

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB2004/004150

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0280840	A	07-09-1988	US 4693985 A	15-09-1987
			EP 0280840 A1	07-09-1988
			CA 1249781 A1	07-02-1989
			DE 3573886 D1	30-11-1989
			DE 3585542 D1	09-04-1992
			EP 0173500 A1	05-03-1986
			GB 2163434 A ,B	26-02-1986
			GB 2199327 A ,B	06-07-1988
			JP 1963000 C	25-08-1995
			JP 6089169 B	09-11-1994
			JP 61124868 A	12-06-1986
US 4140662	A	20-02-1979	AR 217685 A1	15-04-1980
			AT 361636 B	25-03-1981
			AT 213578 A	15-08-1980
			AU 3431278 A	27-09-1979
			BE 865195 A1	22-09-1978
			BR 7801779 A	19-12-1978
			CA 1089764 A1	18-11-1980
			DE 2812845 A1	28-09-1978
			DK 128078 A	26-09-1978
			ES 467190 A1	01-08-1979
			FR 2384789 A1	20-10-1978
			GB 1600434 A	14-10-1981
			IT 1111074 B	13-01-1986
			JP 53118517 A	17-10-1978
			NL 7803209 A	27-09-1978
			NO 781039 A	26-09-1978
			NZ 186763 A	26-08-1980
			SE 7803241 A	26-09-1978
			ZA 7801719 A	28-11-1979
US 6319674	B1	20-11-2001	NONE	

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